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The Native Flora of Fitzgerald Glade (Matamata County)

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Summary

FITZGERALD GLADE, 8 miles past Tirau, is part of the bush through which a highway between Cambridge and Rotorua was formed in 1933. A reserve of 95 acres is to be gazetted to protect the vegetation on each side of the road, but only a part is covered with bush.

Because there is much talk of either widening the Glade or forming a parallel road through the bush on the northern side, I have felt that an account of the native flora should be written now.

The plants listed below were collected on both sides of the Glade, for its full length (roughly 1,100 yards), and for 100 yards back on the south side and 200 yards back on the northern side.

The average height of the Glade above sea-level is 850 feet.

The soil is weathered pumice of good quality.

Most of the bush I have examined on eight occasions in the past ten years is growing on ground that slopes gently to the west. On the southern edge there is a ravine 70 to 100 feet deep, providing shade and moisture for dense vegetation. Though the best timber trees were felled many years before the road was formed, there are still some fine tawa and mangeao trees, and one matai.

Farm stock is able to enter the northern edge of the bush, and has eaten much of the undergrowth there.

SPECIAL FEATURES

1. The wealth of tree-ferns lining the Glade. From my own observation, I know that these have grown very strongly in the last twenty years.

2. The profusion of *Blechnum filiforme, Microsorium pustulatum, Ripogonum scandens, Astelia cunninghamii, Collospermum hastatum, Macropiper excelsum, Podocarpus ferrugineus, Litsaea calicaris, Alseuosmia macrophylla,* and species and individuals of *Metrosideros.*

3. The apparent absence of *Podocarpus totara* and *Podocarpus hallii*, though these are common two miles further along the road to Rotorua.

4. The scarcity of shrubby species of *Coprosma.*

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5. A neatn association (natural probably) at the western end of the Glade, comprising the usual *Pteridium esculentum, Leptospermum scoparium, Lycopodium* spp., *Cordyline banksii, Leucopogon fasciculatus, Gaultheria antipoda.*

NOMENCLATURE

In most cases I have followed the nomenclature of Cheeseman's "Manual of the New Zealand Flora", 1925 edition, but, acting upon the advice given to me five years ago by the late Dr H. H. Allan, I have adopted the changes made in the species names of the genera *Astelia, Metrosideros, Clematis* and *Rubus,* and the changes in all the ferns except the genera *Hymenophyllum* and *Trichomanes.* In every case I have quoted an authority.

I have followed E. D. Hatch in the naming of orchids, and V. J. Cook in the naming of sedges.

ACKNOWLEDGMENTS

I wish to thank Miss M. Crookes, the late Dr H. H. Allan and the late Dr W. R. B. Oliver for their identifications of plants.

THE SPECIES

The abbreviations following the names have these meanings: A, abundant; C, common; O, occasional; R, rare.

FILICES

Leptopteris hymenophylloides (A. Rich.) Presl—O
Lygodium articulatum A. Rich.—R
Hymenophyllum sanguinolentum Swartz—R
— *australe* Willd.—R
— *dilatatum* Swartz—O
— *demissum* Swartz—C
— *scabrum* A. Rich.—R
—*flabellatum* Labill.—R
Trichomanes reniforme Forst. f.—O
— *venosum* R. Br.—C
Dicksonia squarrosa Swartz—A
— *fibrosa* Col.—O
Cyathea dealbata Swartz—A
— *medullaris* Swartz—A
— *cunninghamii* Hook. f.—O
— *smithii* (Hook. f.) Domin—O
Leptolepia novae-zelandiae (Col.) Kuhn—R
Paesia scaberula (A. Rich.) Kuhn—O
Pteridium esculentum (Forst. f.) Diels—A
Histiopteris incisa (Thun.) J. Smith—O
Pteris tremula R. Br.—R
Pellaea rotundifolia (Forst. f.) Hook.—O
Arthropteris tenella (Forst. f.) J. Smith—C
Polystichum sylvaticum (Col.) Diels—R
— *vestitum* (Sw.) Presl—R
— *richardi* (Hook.) J. Smith—O
Rumohra hispida (Sw.) Copeland—A
— *adiantiformis* (Forst. f.) Ching—R
Ctenitis glabella (A. Cunn.) Copeland—O
— *decomposita* (R.Br.) Copeland—O
Cyclosorus penniger (Forst. f.) Copeland—A
Athyrium australe (R. Br.) Presl—O
Blechnum filiforme (A. Cunn.) Ettingsh.—A
— *minus* (R. Br.) Cockayne—O
— *lanceolatum* (R. Br.) Sturm—O
— *procerum* (Forst. f.) Labill.—A
— *fluviatile* (R.Br.) Salom.—C
— *discolor* (Forst. f.) Keys—C
Asplenium falcatum Lam.—C
— *lucidum* Forst. f.—C
— *flaccidum* Forst. f.—A
— *bulbiferum* Forst. f.—C
Pyrrosia serpens (Forst. f.) Ching—A
Microsorium pustulatum (Forst. f.) Copeland—A
— *diversifolium* (Willd.) Copeland—C
Grammitis billardieri Willd.—O
Anarthropteris dictyopteris (Mett.) Copeland—C

LYCOPODIACEAE

Lycopodium billardieri Spring.—R
— *densum* Labill.—O
— *volubile* Forst. f.—O
Tmesipteris tannensis Bernh.—O

TAXACEAE

Podocarpus ferrugineus D. Don—A
— *spicatus* R. Br.—O
— *dacrydioides* A. Rich.—O
Dacrydium cupressinum Sol. ex Forst. f.—C
Phyllocladus trichomanoides D. Don—R

PANDANACEAE

Freycinetia banksii A. Cunn.—C

GRAMINEAE
Microlaena avenacea Hook. f.—O
— *stipoides* (Labill.) R. Br.—C

CYPERACEAE
Scirpus inundatus Poir.—O
Gahnia gahniaeformis (Gaud.) A. A. Heller—O
Uncinia riparia R. Br.—O
Carex sp.—O

PALMAE
Rhopalostylis sapida Wendl. & Drude —O

JUNCACEAE
Juncus prismatocarpus R. Br.—O

LILIACEAE
Ripogonum scandens J. R. & G. Forst. —A
Cordyline banksii Hook. f.—C
— *australis* Hook. f.—O
Astelia solandri A. Cunn.—A
— *nervosa* Banks & Sol. ex Hook. f.—R
Collospermum hastatum (Col.) Skottsberg—A
Dianella intermedia Endl. var. *norfolkensis* F. B. H. Brown.—O

ORCHIDACEAE
Dendrobium cunninghamii Lindl.—R
Bulbophyllum pygmaeum (Smith ex Banks & Sol.) Lindl.—R
Earina mucronata Lindl. ex Banks and Sol. —A
— *autumnalis* (Forst. f.) Hook. f.—O
Sarcochilus adversus Hook. f. ex Banks & Sol.—O
Microtis unifolia (Forst. f.) Reichb. f.—O
Thelymitra longifolia Forst.—O

PIPERACEAE
Macropiper excelsum Miq.—A

MORACEAE
Paratrophis microphylla (Raoul) Cockayne —O

PROTEACEAE
Knightia excelsa R. Br.—C

POLYGONACEAE
Muehlenbeckia australis (Forst. f.) Meissn. —O
— *complexa* (A. Cunn.) Meissn.—R

RANUNCULACEAE
Clematis paniculata J. F. Gmelin (syn. *C. indivisa* Willd.)—O
— *hexasepala* DC.—O
Ranunculus hirtus Banks & Sol. ex Forst. f. —O

MONIMIACEAE
Hedycarya arborea J. R. & G. Forst.—C
Laurelia novae-zelandiae A. Cunn.—C

LAURACEAE
Beilschmiedia tawa (A. Cunn.) Benth. & Hook. f.—A
Litsaea calicaris Benth. & Hook. f.—A

CRUCIFERAE
Cardamine heterophylla (Forst. f.) O. E. Schulz—O

PITTOSPORACEAE
Pittosporum tenuifolium Banks & Sol. ex Gaertn.—O
— *colensoi* ? Hook. f.—O
— *cornifolium* A. Cunn.—R

CUNONIACEAE
Weinmannia racemosa Linn. f.—A

ROSACEAE
Rubus squarrosus Fritsch—A
— *schmidelioides* A. Cunn.—O
Acaena sanguisorbae Vahl.—O

OXALIDACEAE
Oxalis corniculata Linn.—O

CORIARIACEAE
Coriaria arborea Lindsay—O

SAPINDACEAE
Alectryon excelsum Gaertn.—O

ELAEOCARPACEAE
Elaeocarpus dentatus Vahl.—C
Aristotelia serrata (J. R. & G. Forst.) W. R. B. Oliver—A

VIOLACEAE
Melicytus ramiflorus J. R. & G. Forst.—A

PASSIFLORACEAE
Tetrapathaea tetrandra (Banks & Sol.) Cheesem.—O

MYRTACEAE
Leptospermum scoparium J. R. & G. Forst. —O
Metrosideros scandens (J. R. & G. Forst.) Druce—A
— *carminea* W. R. B. Oliver—C
— *diffusa* (Forst. f.) W. R. B. Oliver—C
— *robusta* A. Cunn.—O
— *perforata* (J. R. & G. Forst.) Rich.—A

ONAGRACEAE
Epilobium erectum Petrie
Fuchsia excorticata Linn. f.—O

HALORAGIDACEAE
Haloragis erecta (Murr.) Schindler—O

ARALIACEAE
Nothopanax arboreum (Linn. f.) Seem.—A
— *laetum* Cheesem.—O
Schefflera digitata J. R. & G. Forst.—A
Pseudopanax crassifolium (Sol.) C. Koch —R

UMBELLIFERAE
Hydrocotyle elongata A. Cunn.—O
— *dissecta* Hook. f.—O
Centella uniflora (Col.) Nannfeldt—O

CORNACEAE
Griselinia lucida Forst. f.—O

ERICACEAE
Gaultheria antipoda Forst. f.—O

EPACRIDACEAE
Leucopogon fasciculatus (Forst. f.) A. Rich. —O

MYRSINACEAE
Myrsine australis (A. Rich.) Allan—O

Oleaceae
Olea cunninghamii Hook. f.—O

Loganiaceae
Geniostoma ligustrifolium A. Cunn.—C

Apocynaceae
Parsonsia heterophylla A. Cunn.—O
— *capsularis* (Forst. f.) R. Br.—O

Convolvulaceae
Calystegia sepium (L.) R. Br.—O
— *tuguriorum* (Forst. f.) R. Br.—O

Solanaceae
Solanum nigrum Linn.—C
— *aviculare* Forst. f.—O

Scrophulariaceae
Hebe salicifolia (Forst. f.) Pennell—O

Rubiaceae
Coprosma australis (A. Rich.) Robinson—A
— *robusta* Raoul—C
— *lucida* J. R. & G. Forst.—O
— *cunninghamii* Hook. f.—R
— *tenuicaulis* Hook. f.—O

Caprifoliaceae
Alseuosmia macrophylla A. Cunn.—A

Compositae
Brachyglottis repanda J. R. & G. Forst.—A
Senecio kirkii Hook. f. ex T. Kirk—R
Olearia rani (A. Cunn.) Druce—O

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